WHAT IS CLAIMED IS:

- 1. A scanning device for radiographic media comprising:
- (a) a rotatable vacuum drum comprising an external surface, and wherein the drum rotates about a longitudinal axis;
 - (b) a radiographic media disposed on the external surface;
- (c) a moveable scan bar mounted on a first and second translation rod adjacent the drum;
- (d) at least a first scan module and a second scan module mounted on the moveable scan bar;
- (e) a translation drive connected to the moveable scan bar for moving the moveable scan bar perpendicular to the longitudinal axis;
- (f) an analog to digital converter in communication with the scan modules for receiving scanned signals from the scan modules;
 - (g) a control process unit for receiving scanned signals; and
- (h) an output device for writing the received scanned signals onto diagnostic media.
- 2. The device of claim 1, wherein the drum rotates between 100 and 1000 rpm around the longitudinal axis.
- 3. The device of claim 1, wherein the radiographic media is a phosphor sheet.
- 4. The device of claim 1, wherein the moveable scan bar is a rectangular metal structure mounted on the rods and adapted for quick translational movement along the scan bar.
- 5. The device of claim 1, wherein each scan module comprises:
- (a) a housing comprising a channel; a cylindrical center chamber in communication with the channel comprising a mirrored surface; a first

opening communicating with the cylindrical chamber; and a second opening communicating with the cylindrical chamber;

- (b) a laser is disposed in the housing and adapted to generate a beam of stimulating electromagnetic radiation through the channel and the first opening to stimulate an area of the photo-stimulatable radiographic media, and wherein the stimulated area emits light and reflected light to enter the first opening and the cylindrical chamber;
- (c) a light detector disposed in the second opening for receiving light emitted and reflected into the cylindrical chamber; and
- (d) a filter disposed at the second opening of the housing for selectively passing only the emitted light from the stimulated area of the photostimulatable radiographic media to the light detector.
- 6. The device of claim 5, wherein the cylindrical center chamber is elliptical.
- 7. The device of claim 5, wherein the radiographic media is a phosphor sheet.
- 8. The device of claim 5, wherein the laser is a multimode, 635 nanometer, 100 mW, or a single mode 635 nanometer, 100 mW laser.
 - 9. The device of claim 5, wherein the filter is a blue filter.
- 10. The device of claim 5, wherein the housing is a plastic, a polycarbonate, a composite, or a metal.
- 11. The device of claim 5, wherein the housing is a molded one-piece construction.

- 12. The device of claim 5, wherein the mirrored surface is an elliptical reflector comprising an overall length between 15 mm and 30 mm and a degree of curvature of the resulting chamber between 20 degrees and 30 degrees.
- 13. The device of claim 1, wherein the control process unit is a computer.
- 14. The device of claim 1, wherein the output device is a film writer or display.
- 15. A method for scanning radiographic media and writing scanned images on diagnostic film comprising:
 - (a) placing the radiographic media on a vacuum drum;
- (b) bringing the radiographic media up to a predefined rotational speed;
- (c) scanning the radiographic media with all scanning modules simultaneously;
- (d) converting the scanned images from analog to digital images;
- (e) compiling with a control process unit the digital images from the different scanning modules forming a continuous and complete image; and
- (f) transmitting the compiled and complete digital image to an output device.
- 16. The method of claim 15, wherein each scan module scans a 1-inch swath of the media.
- 17. The method of claim 15, wherein the output device is a film writer or an imaging display.

- 18. The method of claim 15, wherein the complete image is stored in the control process unit.
- 19. The method of claim 15, further comprising the step of using the output device and writing the complete image on diagnostic media.